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PHOTOGRAPHIC INTERPRETATION REPORT

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DEVELOPMENTS IN SHANTUNG PROVINCE, CHINA MARCH 1972 - JANUARY 1973





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DEVELOPMENTS IN SHANTUNG PROVINCE, CHINA MARCH 1972 - JANUARY 1973

ABSTRACT

1. This report reviews major developments of intelligence interest observed in Shantung Province on photography from mid-March 1972 to mid-January 1973. It consists of text, maps, tables, and photographs.

INTRODUCTION	
2. Shantung Province is on the Yellow Sea coast of northeast China and consists of the Shantung Peninsula, a mountainous promontory which separates the Po Hai (Gulf of Chihli) from the Yellow Sea, and a portion of the Yellow River plain west of the peninsula. The province has an area of 59,300 square miles, approximately the size of Florida, and a population of 54 million.	
3. This report updates a previous report ¹ and provides a summary of major developments in missile, air, naval, electronics, ground forces, industrial, and underground construction activity in Shantung Province	25X1 25X1
	20/(1
BASIC DESCRIPTION	
Missile Activity (Figure 1)	
Surface-to-Surface Missiles	
4. The only surface-to-surface missile (SSM)-associated facility in Shantung Province is the 1-tu SSM Training School where camouflaged SRBM, CSS-1, and CSS-2 equipment was observed in September 1972 (Figure 2). The missile service tower is believed to be an aboveground training aid simulating the silo checkout facilities for the CSS-X-3 nominal ICBM. No other SSM activity was noted in the province.	25 X 1
5. Although no new SSM-associated facilities or equipment have been found in Shantung Province outside of I-tu SSM Training School, several military and storage areas in the province are capable of supporting SSM activity. The nature of unidentified construction activity around I-tu SSM Training School and I-tu Airfield makes it impossible to state that no additional SSM-related facilities will appear in this area (see Air Activity, below).	25 X 1
Surface-to-Air Missiles	
6. Two new surface-to-air missile (SAM) sites (Figure 1) were identified	25X1
7. Chao-lien Tao SAM Site on an island in the Yellow Sea 30 nautical miles (nm) east-southeast of Ching-tao, was first observed on photography It contained one probable CSA-1 missile and four CSA-1 missile launchers (Figure 3). This four-position site was difficult to identify on photography because of its irregular configuration.	25X1 25X1
8. Yen-tai SAM Site D30-1 only 8.6 nm west-northwest of Yen-tai SAM Site C30-1 was first identified in the midstage of construction on photography the site appeared complete and was occupied by three CSA-1 missiles, four CSA-1 launchers, and four CSA-1 transporters. This circular six-position site is on a hilltop and is supported by four drive-in adits and a drive-through tunnel.	25X1 25X1 25X1
9. Both Wei-hai SAM Site C11-1 and Yen-tai SAM Site C30-1 were unoccupied	25X1
The equipment from Yen-tai SAM Site C30-1 may have been moved to Yen-tai SAM Site D30-1. Only Lai-yang SAM Site A36-1 has remained	25X1 25X1

25X1

- 1 -

occupied throughout the reporting period.

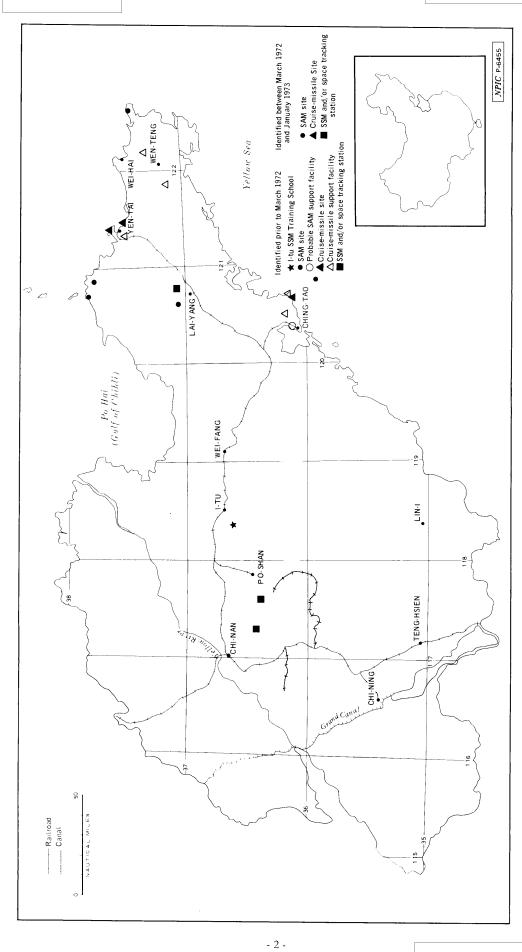


FIGURE 1. MISSILE ACTIVITY IN SHANTUNG PROVINCE, CHINA



17. Thirty-seven BEAGLE aircraft were present at Chiao-shien Airfield

This was the first time BEAGLE aircraft had been observed at this FAGOT aircraft had been observed at Chiao-hsien during airfield since the first eight months of 1972 18. No aircraft have been observed at Lai-yang Airfield since September 1972 Prior to September 1972 this airfield was a BEAGLE base; however, it should not necessarily be assumed that the BEAGLE from Lai-yang were moved to Chiao-hsien. Some of the BEAGLE which have left Lai-yang were identified as BEAGLE variant No BEAGLE variant have yet been identified at Chiao-hsien.

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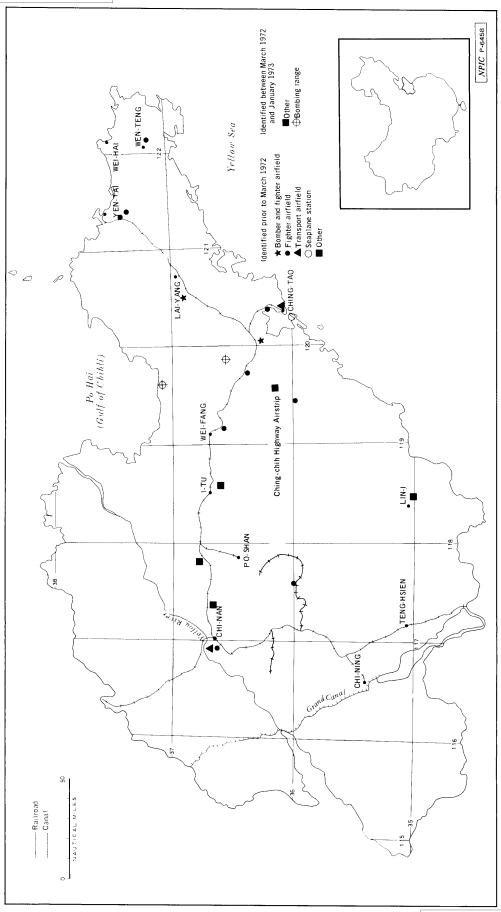
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FIGURE 4. AIR ACTIVITY IN SHANTUNG PROVINCE, CHINA

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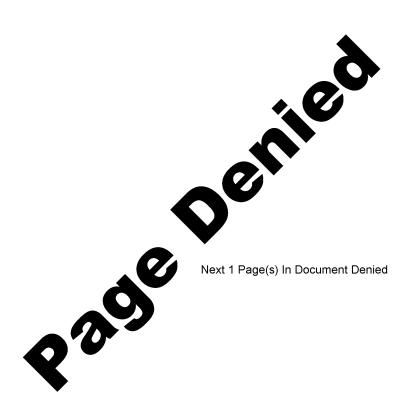


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19. FAGOT/FRESCO aircraft may have been redeployed from Chiao-hsien Airfield to Ching-tao/Liu-ting Airfield in 1972. Forty-one FAGOT/FRESCO aircraft were observed at Ching-tao/Liu-ting airfield on photography This was the largest number of FAGOT/FRESCO observed at this airfield when 49 were observed; the highest count during the past three years was 13. No FAGOT/FRESCO aircraft were observed at Chiao-hsien Airfield 41 FAGOT/FRESCO were observed at this airfield in February 1972	re 25) as 25) 25)
Naval Activity	
20. The first naval salvage operation observed in China on overhead photography was identified during the summer of 1972. A probable old submarine (OSS) was raised from the ocean floor 2 nm north of the Shantung Peninsula. The salvage operation was first observed under way in the Yellow Sea near the mouth of the Po Hai	3 e 2 25. n 25. et 25.
Electronics Activity	
21. Chi-nan Probable Space Tracking Facility in the hills 14 nm southeast of Chi-nan (Figure 1), was identified on photography The facility contains a pedestal-mounted dish antenna (Figure 7). This facility is probable associated with space and/or SSM tracking.	у 25
Ground Forces Activity	
22. Shantung Province makes up the major portion of the Chi-nan Military Region. Groun forces weapons and equipment were observed at widely dispersed locations throughout the province during 1972 (Figures 8 and 9 and Table 1). Most of the sightings were of small numbers of weapon parked at army barracks or deployed in defense of airfields, harbors, or coastal areas. No large fiel exercises were observed in progress during the summer of 1972; however, an antiaircraft artiller field exercise, elements of a field artillery division deployed in a dispersal area, and increased vehicula activity were observed during the fall It has been suggested that PLA units conduct maneuvers in Shantung Province during the cooler months when crops will not be damaged. Forty-three confirmed tanks, eight probable tanks, and four possible tanks were observed in Shantung Province. River crossing equipment, including motor launches and TPP/PMP pontor on carriers, was observed both at Ping-yin Army Barracks AL 1	e ss d 25 e e ss 25 % 25 %
23. The Chinese have continued to expand and harden their coastal defense network in Shantun Province. Eight coastal defense sites were identified	e 25 s
Underground Construction	
24. Continuing construction of passive defenses was observed Tunnels, possibly for civil defense, and construction materials including prefabricated concret arch-roofed sections often associated with personnel shelter construction were observed in Ching-tac A drive-in possible personnel shelter or storage tunnel was observed under construction at Kao-m Airfield on photography Additional storage and support tunnel were identified at numerous facilities throughout Shantung Province.	i
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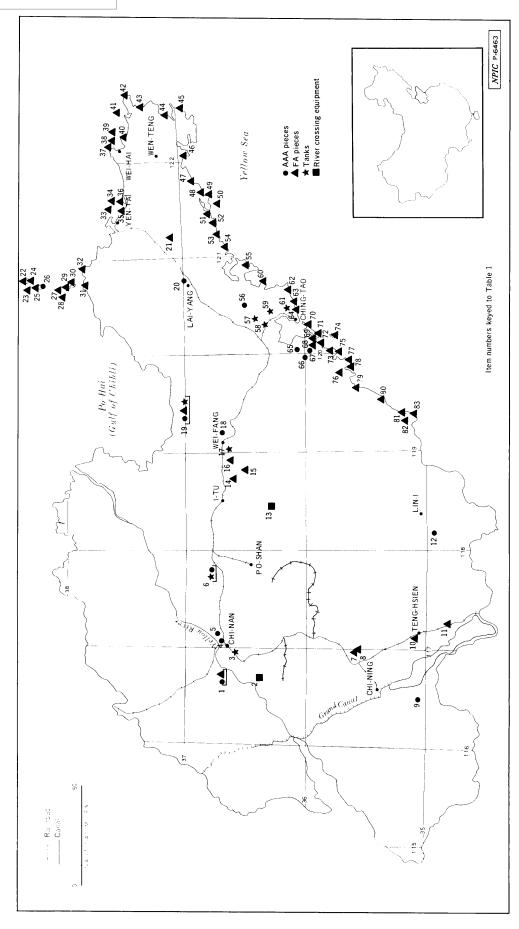


FIGURE 9. GROUND FORCES ACTIVITY IN SHANTUNG PROVINCE, CHINA, OCTOBER-DECEMBER 1972 (Items keyed to Table 1)

Table 1. Ground Forces Activity in Shantung Province

ITEM	SIGHTINGS	LOCATION	WEAPONS/EQUIPMENT	REMARKS
1	FA & AAA	Chang-ching Army Bks AL 2	16 FA pieces 11 ZPU-4 AAHMG	Parked in barracks area.
2	River crossing equipment	36-31-40N 116-43-40E Ping-yin Army Bks AL 1	1 poss ZPU-4 AAHMG 37 TPP/PMP ponts on carriers	Parked in barracks area, near Yellow River.
3	Armor	36-18-20N 116-27-20E Chi-nan Army Bks SW AL 1	2 poss power boats 7 tanks 1 poss tank	Parked in barracks area.
4	AAA	36-36-28N 116-55-55E Chi-nan Army Bks AL 12	23 AAA pieces	Parked in barracks area.
5	Deployed AAA	36-41-10N 117-04-05E Chi-nan Army Bks AL 11	24 AAA pieces	Deployed near barracks area.
6	Armor & FA	36-42-17N 117-08-42E Wang-tsun Army Bks AL 1	10 tanks 12 FA pieces	Parked in barracks area.
7	FA	36-39-25 117-40-20E Yen-chou HQ Arty Div & Army Bks AL 2	4 FA pieces	Parked in barracks area.
8	FA	35-36-14N 116-58-18E Yen-chou Army Bks East AL 3	3 poss FA pieces	Parked in barracks area.
9	Elements of a AAA division deployed in a dispersal area	35-35-56N 116-59-48E Chin-hsiang AAA Dispersal Area	102 AAA pieces	Deployed in fields & parked near vehicle sheds
10	FA	35-03-30N 116-29-30E Teng-hsien Army Bks North- west AL 1	23 FA pieces 3 prob FA pieces	Parked in barracks area
11	FA	35-05-56N 117-07-30E Lin-cheng Army Bks Central AL 1	6 FA pieces	Parked in barracks area
12	Deployed AAA	34-48-08N 117-14-53E Chu-chen Army Bks SE AL 2	18 AAA pieces 9 AAHMG	Deployed near barracks

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13	River crossing equipment	Yeh-yuan Army Bks 36-24-10N 118-31-40E	20 TPP/PMP ponts on carriers 2 prob river launches	River crossing equipment parked in the barracks area, on the shores of a large reservoir; ramp leading into
				water observed in front of barracks area
14	FA	Chang-Io Army Bks AL 2	5 FA pieces (prob 122-mm howitzers)	Parked in barracks area
15	FA	36-39-41N 118-51-44E Chang-lo Army Bks AL 3	23 FA pieces 6 FA pieces (prob 122-mm	Parked in barracks area
		36-39-07N 118-53-28E	howitzers)	
16	FA	Liu-chia-cheng-chang Army Bks AL 1	27 FA pieces (prob 122-mm howitzers)	Parked in barracks area
		36-40-41N 118-58-12E		
17	Armor	Wei-fang Army Bks WSW AL 1	17 tanks	Parked in barracks area
		36-41-10N 119-02-50E		
18	AAA	Wei-fano Army Rks NE	18 AAA pieces (prob 37-mm)	Parked in a vehicle park in barracks area
19	Elements of an FA	36-44-08N 119-08-25E Chang-i Prob Arty Div Area	1 tank (prob type-59)	Weapons either parked or deployed
19	division, a AAA		2 prob tanks	in batteries of 6 near small barracks
	regiment, & armor deployed in a dispersal	37-00-00N 119-18-40E	111 FA pieces 47 AAA pieces	areas near the southern shore of Po Hai; extensive tracks observed
	area			near barracks where tanks were
20	AAA	Lai-yang HQ Inf Div & Army	18 prob FA/AAA	Parked in barracks area
		Bks AL 2	6 AAA pieces	
		36-59-43N 120-40-35E		
21	FA	Tao-tsun Army Bks NNW	12 FA pieces	Parked in barracks area
		37-14-35N 121-06-05E	4 prob FA pieces 2 poss FA pieces	
22	Deployed FA (coastal	Pei-cheng-huang Tao CD Site 2	4 FA pieces	In firing positions
	defense)		p. 10000	The state of the s
23	Deployed FA (coastal	38-24-00N 120-54-40E Pei-cheng-huang Tao CD Site	8 FA pieces	In firing positions
23	defense)	Toroneliginually Tao CD Site	7 AAA pieces	III IIIIIIg positions
	Deployed AAA	38-23-20N 120-55-20E	,	
24	Deployed FA (coastal defense)	Nan-cheng-huang Tao CD Site	4 FA pieces	In firing positions
		38-20-55N 120-54-35E		

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ITEM	SIGHTINGS	LOCATION	WEAPONS/EQUIPMENT	REMARKS
25	Deployed FA (coastal defense)	Nan-cheng-huang Tao CD Site 4	Four 100-mm FA pieces	In firing positions on the NE shore of Nan-cheng-huang Tao (island)
26	Deployed AAA	38-22-18N 120-54-20E Ta-chin Tao Poss CD Site	6 AAHMG	In revetments on hilltop directly south of site
27	FA	38-18-40N 120-49-39E Pei-cheng-shan Tao CD Site 1	8 prob FA pieces	Parked in support area
28	FA	37-59-50N 120-42-50E Ta-hei-shan Tao CD Site 1	4 poss FA pieces	Parked near firing position & tunnel
29	Deployed FA (coastal defense)	37-59-05N 120-36-35E Chang-shan Tao CD Site 37-57-20N 120-44-50E	6 FA pieces (prob 122-mm howitzers)	In firing positions
30	Deployed FA (coastal defense)	Chang-shan Tao CD Site 3	1 prob 122-mm howitzer	In firing positions
31	Deployed FA (coastal defense)	37-57-05N 120-44-12E Peng-lai CD Site 2	Two 100-mm FA pieces	In tunnel-served firing positions
32	Deployed FA (coastal defense)	37-50-00N 120-44-43E Peng-lai CD Position	3 FA pieces	In firing positions
33	Deployed FA (coastal defense)	37-49-05N 120-54-45E Kung-tung Tao CD Site 2	4 FA pieces	In masonry revetted firing positions
34	Deployed FA (coastal defense)	37-33-45N 121-30-30E Kung-tung Tao CD Site 1	Two 130-mm FA pieces	In firing positions
35	Deployed FA (coastal defense)	37-33-50N 121-30-50E Yen-tai CD Artillery Site	6 FA pieces	In revetted firing positions
36	Deployed FA (coastal defense)	37-30-55N 121-25-35E Yang-ma Tao CD Site 1	4 FA pieces 3 poss FA pieces	In firing positions
37	Deployed FA (coastal	37-27-20N 121-35-05E Wei-hai CD Site 1	4 FA pieces	In firing positions
	defense)	37-31-20N 122-09-20E		

38	Deployed FA (coastal defense)	Liu-kung Tao CD Area	Eight 100-mm FA pieces	In firing positions; 4 positions hard- ened & tunnel served
39	Deployed FA (coastal defense)	Liu-kung Tao CD Site	4 FA pieces	In firing positions which appeared to be tunnel served
40	Deployed FA (coastal defense)	37-29-55N 122-12-20E Chang-feng-chai CD Site	4 FA pieces	In hardened casemented firing positions
41	Deployed FA (coastal defense)	37-27-35N 122-15-10E Chi-ming Tao CD Site 1	4 FA pieces	In firing positions
42	Deployed FA (coastal defense)	37-27-05N 122-29-50E Lung-hsu Tao CD Site	4 FA pieces	In firing positions
43	FA	37-23-40N 122-42-00E Chui-jung-cheng CD Post	8 FA pieces	Parked in two 4-gun batteries
44	FA	37-24-30N 122-39-20E Jung-cheng CD Site	4 poss 130-mm FA pieces	Parked in support area
45	FA	37-09-40N 122-34-15E Ning-ching-so CD Post	6 FA pieces	Parked at coastal defense post
46	Deployed FA (coastal defense)	36-59-20N 122-30-42E Chien Tao CD Post	4 FA pieces	In firing positions
47	FA	36-54-35N 122-02-30E Huang-tuan CD Post	4 FA pieces	Parked at CD post
48	Deployed FA (coastal defense)	36-53-10N 121-45-40E Hai-vang-so CD Site	4 FA pieces	In tunnel entrances behind firing positions
49	FA	36-45-40N 121-37-40E Huang Tao CD Post	4 FA pieces	Parked at CD post
50	FA	36-43-15N 121-36-55E Tu-chia Tao CD Site	6 FA pieces	Parked in support area
51	Deployed FA (coastal defense)	36-44-30N 121-33-20E Chao-chia CD Site	3 FA pieces	In firing positions
		55 10 1011 121 20 252		

Hsin-chia CD Site

36-45-40N 121-26-20E

Chiu-hai-yang CD Site

36-41-20N 121-14-20E

36-41-05N 121-05-20E

36-32-30N 120-58-30E

Chi-mo Army Bks AL 3

36-27-05N 120-30-50E

36-23-50N 120-21-50E

36-20-20N 120-20-30E

36-17-50N 120-26-50E

Ao-shan-wei CD Site 1

36-20-08N 120-43-40E

36-08-22N 120-29-38E

Chu-hsien-kung CD Post

36-07-15N 120-36-10E

36-05-35N 120-29-40E

Shan-tung-tou CD Post

36-05-50N 120-26-40E

Shih-lao-jen CD Post

Ching Tao Army Bks NE

Cheng-yang Army Bks AL 4

Cheng-yang Army Bks AL 2

Cheng-yang Army Bks AL 6

Hai-yang CD Site 1

Tien-chi CD Site 2

LOCATION

ITEM

52

53

54

55

56

57

58

59

60

61

62

63

64

SIGHTINGS

Deployed FA (coastal

Deployed FA (coastal

defense)

defense)

Deployed AAA

FΑ

FΑ

Armor

Armor

Armor

defense)

Armor

FΑ

FΑ

FΑ

Deployed FA (coastal

WEAPONS/EQUIPMENT

4 FA pieces

8 FA pieces

1 tank

4 prob tanks

4 FA pieces

4 FA pieces

6 FA pieces

Parked in barracks area

Parked at CD post

Parked at CD post

Parked at CD post

REMARKS

Deployed in two 4-gun batteries in

In firing positions

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1 25X1 25X1 25X1 25X1

25X1

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25X1

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Deployed FA (coastal defense)

FΑ Yu-chih CD Post 35-44-55N 119-59-50E FΑ

77 Deployed FA (coastal defense)

65

66

67

68

69

70

71

72

73

74

75

76

AAA

AAA

AAA

FΑ

defense)

FΑ

FA

FΑ

Deployed FA (coastal

35-45-40N 120-09-20E 4 FA pieces Yao-tao Army Bks AL 1 35-36-45N 119-46-40E

3 prob FA pieces

2 FA pieces

27 AAA pieces

18 AAA pieces

4 FA pieces

6 FA pieces

4 FA pieces

4 FA pieces

2 FA pieces

4 FA pieces

4 FA pieces

16 prob FA pieces

Four 160-mm mortars

20 prob AAA pieces

Wang-tai Army Bks SE AI 2

36-03-28N 120-02-18E Wang-tai HQ Inf Div & Army

36-00-59N 119-59-25E

35-57-00N 120-00-10E

Wang-ko-chuang CD Site

35-54-07N 120-00-41E

Ling-shan-wei CD Post

35-55-50N 120-07-45E

35-59-20N 120-17-48E

35-54-35N 120-10-40E

Feng-chia-tuan CD Site

35-52-24N 120-02-42E Tien-wang-chia Army Bks SE

35-48-30N 120-00-30E

Ting-chia-wa CD Site

35-38-55N 119-54-10E

Shui-ling-shan Tao CD Site

AL 1

West

Nan-chuang CD Site

Yu-ming CD Post

Chiao-nan Army Bks AL 2

Bks AL 1

Parked in barracks area

positions

In revetted tunnel-served firing

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Parked near barracks

Parked near barracks

Parked in barracks area Parked in support area Parked at CD post In firing positions Parked in barracks area Parked in support area Parked in support area In firing positions Parked at CD post

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25X1 25X1 25X1

Table 1. (Continued)

ITEM	SIGHTINGS	LOCATION	WEAPONS/EQUIPMENT	REMARKS
78	FA	Po-erh CD Post	2 FA pieces	Parked at CD post
		35-37-50N 119-53-10E		
79	FA	Wang-chia-tan CD Post	6 FA pieces	Parked at CD post
		35-37-00N 119-39-55E		
80	FA	Jih-chao CD Artillery Site	Three 122-mm FA pieces	Parked in support area
		35-20-20N 119-28-20E		
81	FA	An-tung-wei CD Post	6 FA pieces	Parked at CD post
		Han-cha-ying-tzu		
		35-11-00N 119-21-45E		
82	FA	An-tung-wei CD Post	Three 100-mm FA pieces	Parked at CD post
		35-07-25N 119-18-25E		
83	Deployed FA (coastal	Lan-shan-tou CD Site 1	4 FA pieces	In firing positions
	defense)	35-06-20N 119-21-30E		

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	REFERENCES		
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MAPS OR CHARTS			
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